PATENT / JW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Patent Application of

Stuart Butterworth et al.

Application No.: 10/788,820

Filed: February 27, 2004

For: CONTACT-BONDED OPTICALLY

PUMPED SEMICONDUCTOR LASER

STRUCTURE

Confirmation No.: 6927

Group Art Unit: 2828

Examiner: Unknown

INFORMATION DISCLOSURE STATEMENT

353 Sacramento Street, Suite 2200 San Francisco, CA 94111 (415) 772-4900

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope, addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on July 1, 2004.

STALLMAN & POLLOCK LLP

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

M/S AMENDMENT

Sir:

Applicant(s) submit(s) herewith patents, publications or other information [attached hereto and listed on the attached Form PTO-1449 (modified)] of which they are aware, which they believe(s) may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

This Information Disclosure Statement:

(a) accompanies the new patent application submitted herewith. 37 CFR § 1.97(a).

Dated: 07/ 1

- (b) is filed within three months after the filing date of the application or within three months after the date of entry of the national stage of a PCT application as set forth in 37 CFR § 1.491.
- (c) as far as is known to the undersigned, is filed before the mailing date of a first Office Action on the merits, or before a first office action after filing a Request for Continued Examination under §1.114.
- (d) is filed after the first office action and more than three months after the application's filing date or PCT national stage date of entry filing but, as far as is

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(l) given for each listed item	
(m) given for only non-English	language listed item(s) [Required]
(n) is in the form of an English	language copy of a Search Report from a foreign
patent office, issued in a cou	interpart application, which refers to the relevant
portions of the references [co	opy attached].
The Examiner is reminded that a "co	oncise explanation of the relevance" of the submitted
items "may be nothing more than identifica	tion of the particular figure or paragraph of the patent
or publication which has some relation to the	ne claimed invention," MPEP § 609.
While the information and reference	es disclosed in this Information Disclosure Statement
may be "material" pursuant to 37 CFR § 1.5	56, it is not intended to constitute an admission that
any patent, publication or other information	referred to therein is "prior art" for this invention
unless specifically designated as such.	
In accordance with 37 CFR § 1.97(g	g), the filing of this Information Disclosure Statement
shall not be construed to mean that a search	has been made or that no other material information
as defined in 37 CFR § $1.56(a)$ exists. It is	submitted that the Information Disclosure Statement
is in compliance with 37 CFR \S 1.98 and M	IPEP § 609 and the Examiner is respectfully
requested to consider the listed references.	
The Commissioner is hereby author	ized to charge our Deposit Account No. 50-1703,
under Order No. COHP-5040, for an	ny fees required in connection with the filing of this
Information Disclosure Statement.	A duplicate copy of this Notice is enclosed for this
purpose. In particular, in the event	that an Office Action has crossed in the mail with
this Information Disclosure Stateme	ent, the Commissioner is authorized to charge the
above-named deposit account for an	y fees required pursuant to CFR §§ 1.17(p) or
1.17(i)(1).	
	Respectfully submitted,
	STALLMAN & POLLOCK LLP
Dated: July , 2004	By: Michael A. Stallman (Reg. No. 29,444)
	Attorneys for Applicant(s)

Atty Docket No.: COHP-5040

Docket Number (Optional) COHP-5040 Application Number 10/788,820 Applicant(s) Stuart Butterworth et al. Filing Date February 27, 2004 Group Art Unit 2828

U.S. PATENT DOCUMENTS

٠,	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	*AA	3,556,640	01/19/1971	Austin	350	164	03/01/1968
	*AB	3,578,848	05/18/1971	Austin	350	320	01/26/1968
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FOREIGN PATENT DOCUMENTS

	DOCUMENT						TRANSLATION	
	REF	Number	DATE	COUNTRY	CLASS	SUBCLASS	YES	No
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OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

AD	J.E. Hastie et al., "Thermal management of VECSELs with the use of intra-cavity crystalline heatspreaders", Institute of
	Photonics, University of Strathclyde, Glasgow, UK, IEE Website (2002), 5 pages in length.
AE	W.J. Alford et al., "High power and good beam quality at 980 nm from a vertical external-cavity surface-emitting laser",
	J. Opt. Soc. Am. B., Vol. 19, No. 4, April 2002, pp. 663-666.
AF	W.W. Bewley et al., "Thermal Characterization of Diamond-Pressure-Bond Heat Sinking for Optically Pumped Mid-
	Infrared Lasers", IEEE Journal of Quantum Electronics, Vol. 35, No. 11, November 1999, pp. 1597-1601.
AG	T. Sugino et al., "p-diamond/n-GaAs junctions formed by direct bonding," Electronics Letters, Vol. 32, No. 1, 4th January
	1996, pp. 71-73.

	Examiner	Date Considered				
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if						
	not in conformance and not considered. Include copy of this form with next communication to applicant.					